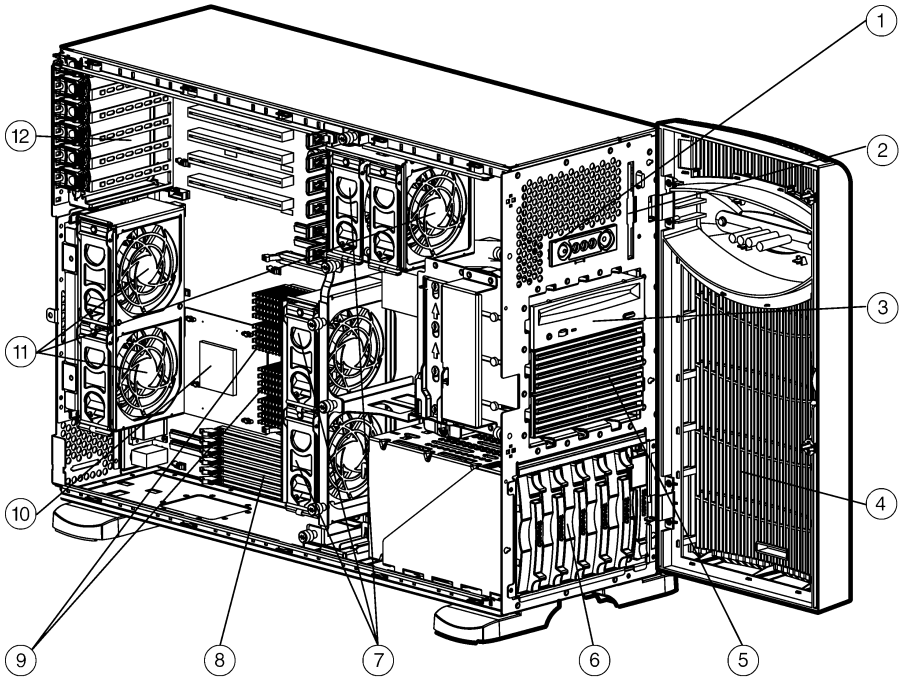
Overview

What's New

- New Smart Array 5i Plus Controller & Battery-Backed Write Cache (BBWC) Enabler bundle option kit

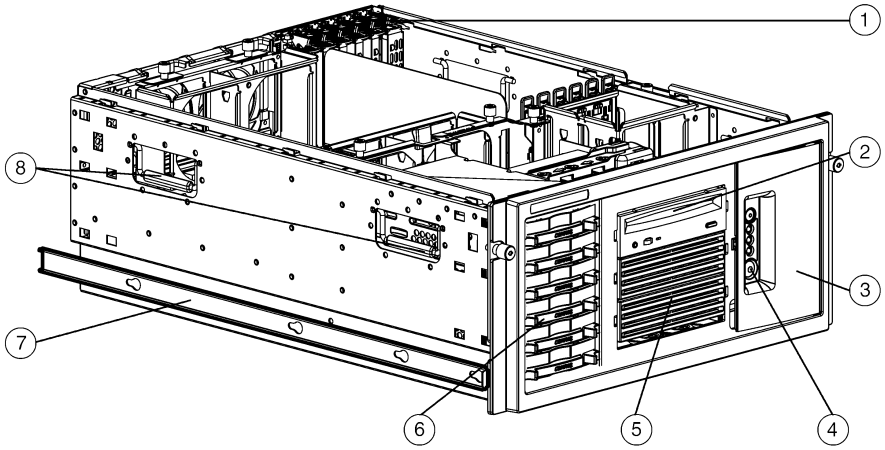
At A Glance

- First 2-way server with advanced memory protection and high availability features demanding remote site and data center environments
- Intel® Pentium® III FC-PGA2 Processors - 1.40 GHz or 1.26 GHz with 512-KB second level ECC cache (dual processing capable)
- Integrated Dual Channel Wide Ultra3 SCSI Adapter
- 2X1 Interleaved memory doubles the memory bandwidth; expandable to 6GB
- Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL (Wake On LAN)
- ServerWorks HE SuperLite Chipset featuring a Triple Peer PCI bus Architecture with 133-MHz Front Side Bus and 64-Bit/66-Mhz slots for ultimate data throughput
- Versatile availability features deliver the right amount protection to end users – PCI hot plug, hot plug redundant power supplies, hot plug redundant fans, Online Spare Memory
- 6x1″ Hot Plug Wide Ultra2/Ultra3 Drive Cage standard
- First in class to offer multiple racking solutions – Compaq Standard, Telco, and Third Party
- Support for Hot Plug 2-Bay SCSI Drive Cage; increases internal hot pluggable storage capacity to an unprecedented 582.4-GB of internal storage and allows separation of boot and OS hard drives or hot plug tape to run on a separate channel from data drives
- Compaq *Insight Manager*™ 7 *SmartStart*™, Automatic Server Recovery (ASR), ROM Based Setup Utility (RBSU)
- Protected by Compaq Services, including a three-year, Next Business Day on-site, limited, Global warranty and extended Pre-Failure Warranty that covers processors, memory and disk drives — Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.



Tower

1. Front Panel LED's (show server status)
2. 1.44 MB (3.5") Floppy Drive
3. 40x Max CD-ROM Drive
4. Front Bezel
5. Removable Media Bays
6. Six 1" Hot Plug Drive Bays
7. Hot Plug Fans Standard
8. Memory Slots
9. Pentium III FC-PGA Processors (two shown, one ships standard)
10. Smart Array 5i Controller (optional)
11. Hot Plug Redundant Fans (Optional)
12. 6 PCI Slots (2 64-Bit/66MHz Hot Plug, 4 64-Bit/33MHz Non Hot Plug)



Rack

1. 6 PCI Slots (2 64-Bit/66MHz Hot Plug, 4 64-Bit/33MHz Non Hot Plug)
2. 40x Max CD-ROM Drive
3. 1.44MB Floppy Drive (not shown on graphic)
4. Front Panel LED's (show server status)
5. Removable Media Bays
6. Six 1" Hot Plug Drive Bays
7. Rails
8. Handles

COMPAQ

Standard Features

Processor *One of the following depending on Model*	Intel Pentium III FC-PGA2 1.40 GHz Processor Intel Pentium III FC-PGA2 1.26 GHz Processor	
Cache Memory	512-KB second level ECC cache (full speed)	
Upgradability	Upgradable to dual processing	
Chipset	ServerWorks HE SuperLite Chipset featuring a Triple Peer PCI bus Architecture with 133-MHz Front Side Bus Note: For more information regarding ServerWorks, please see the following URL: http://www.serverworks.com/products/overview.html	
Memory	Standard	256 MB (PC133-MHz Registered ECC SDRAM memory) (2 x 1 Interleaved Memory)
	Maximum	6 GB
Network Controller	Compaq NC3163 Fast Ethernet NIC (embedded) 10/100 WOL (Wake On LAN)	
Expansion Slots	I/O (6 Total, 6 available)	PCI Voltage:
	64-bit/66-MHz, Hot Plug PCI 2	3.3 Volt or universal cards
	64-bit/33-MHz, Non Hot Plug PCI 4	5 Volt or universal cards
Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (upgradable with optional Compaq Smart Array 5i Controller Option Kit)	
Storage	Diskette Drives	1.44 MB
	CD-ROM	40x IDE CD-ROM Drive
	Hard Drives	None
	Maximum Internal Storage	582.4 GB ((6 x 72.8 GB 1″ with standard internal hot plug drive cage + (2 x 72.8 GB 1″) with optional ML3xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage) 509.6 GB (6 x 72.8 GB 1″ internal hot plug drive cage + 2 x 36.4 internal non-hot plug drives in the removable media bays)
Interfaces	Parallel	1
	Serial	2
	Pointing Device (Mouse)	1
	Graphics	1
	Keyboard	1
	External SCSI	1
	Network RJ-45	1
	USB Ports	2 Note: Please see the following URL for additional information regarding USB support: http://www.compaq.com/products/servers/platforms/usb-support.html.
Graphics	Integrated ATI Rage XL Video Controller with 8MB SDRAM Video Memory	
Form Factor	Tower or Rack (5U)	
Product Demo	To view the Product Demo, please see the following URL, then click on "PRODUCT DEMO": http://www5.compaq.com/products/servers/ProLiantml370/index.html	

Standard Features

ProLiant™ Essentials Foundation Pack Software	Insight Manager 7	Insight Manager 7 helps maximize system uptime and performance and reduces the cost of maintaining the IT infrastructure by providing proactive notification of problems before those problems result in costly downtime and reduced productivity. Insight Manager 7 is easy to set up and provides rapid access to detailed fault and performance information gathered by the Management Agents. One-click-access to the Integrated Lights-Out or Remote Insight Lights Out Edition board allows systems administrators to take full graphical control of ProLiant servers in remote locations or lights-out data centers. Finally, Insight Manager 7 in concert with the Version Control Agents and Version Control Repository Manager enables systems administrators to version manage and update system software across groups of ProLiant servers.
	SmartStart	SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart Website at http://www.compaq.com/products/servers/SmartStart/index.html SmartStart version supported (minimum): SmartStart 5.10
	Management Agents	The Management Agents form the foundation for HP's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into HP servers, workstations, desktops, and portables, and send alerts to Insight Manager 7 and other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management products from HP, please visit the management website at http://www.compaq.com/products/servers/management/index.html
	ActiveUpdate™	ActiveUpdate is a web-based application that keeps IT managers directly connected to HP for proactive notification and delivery of the latest software updates.
	ROMPaq™, support software, and configuration utilities	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options.
	Compaq Survey Utility and diagnostics utilities	The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips.
	Optional ProLiant Essentials Value Packs	Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: • Rapid Deployment Pack – an automated solution for multi-server deployment and provisioning, enabling companies to quickly and easily adapt to changing business demands. • Workload Management Pack – provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server. • Recovery Server Option Pack – entry-level high availability software that will provide reliable protection and increased uptime against server hardware and operating system failures.
	Note: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials. Note: This Web site is available in English only.	
Industry Standard Compliance	ACPI 1.0b Compliant PCI 2.2 Compliant WOL Support Microsoft® Logo certifications PXE Support	

Standard Features

Manageability	Insight Manager 7 Management Agent Redundant ROM Remote Flash ROM Remote Lights-Out Edition (optional) Automatic Server Recovery (ASR) ROM-Based Setup Utility (RBSU) Integrated Management Log Drive Parameter Tracking (with Smart Array controller) Dynamic Sector Repairing (with Smart Array controller) Off-Line Backup Processor capability Pre-Failure Warranty (covers processors, hard drives and memory)
Security	Power-on password Keyboard password Diskette drive control Diskette boot control QuickLock, Network Server Mode Parallel and serial interface control Administrator's password Disk configuration lock
Server Power Cords	One Lowline power cord ships standard. Note: Purchase of the optional Redundant Power Supply (PN 225075-xx1) will provide a second power cord if installed.
Power Supply	500 Watt-CE Mark Compliant Hot Plug Power Supply Optional Redundant Capability
System Fans	3 fans ship standard. 6 total supported internally for full redundancy. Note: The additional 3 fans are available via Option Kit (PN 225073-xx1).
Required Cabling	For required cabling information, refer to the Compaq Web site at http://www.compaq.com/products/servers/ProLiantML370 Note: This Web site is available in English only.
OS Support	Microsoft Windows NT® Server Microsoft Windows 2000 Microsoft Small Business Server 2000 Novell® NetWare® Novell NetWare Small Business Suite SCO® OpenServer® SCO® UnixWare® IBM OS/2 Warp Family LINUX® (RedHat®, SuSE®, Caldera® Server) Sun™ Solaris™ Intel Platform Edition* *Note: Not all storage controllers are supported under Solaris 7 and 8. Please refer to the Supported Devices list on the Solaris Driver Update download page. For Solaris 7 please see the following: http://www.compaq.com/support/files/server/us/locOsCat/36.html For Solaris 8 please see the following: http://www.compaq.com/support/files/server/us/locOsCat/38.html Note: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix at: ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf Note: For an up-to-date listing of the latest drivers available for the Compaq ProLiant ML370, please see: http://www.compaq.com/support/files/server/us/index.html.

Standard Features

Rack Airflow Requirements

- Rack 9000 and 10000 series Cabinets

  The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The Compaq 9000 Series Rack and the new 10000 Series Racks provides enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

- Rack 7000 series Cabinets

  When installing a server with processors running at speeds of 550 MHz or greater in Compaq Rack 7000 series racks with glass doors (165753-001 (42U), and 163747-001 (22U)), the new processor technology requires the installation of Compaq's new High Airflow Rack Door Inserts (327281-B21 (42U), 327281-B22 (42U 6 pack), or 157847-B21 (22U)) to promote enhanced airflow for maximum cooling.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 5,350 sq cm (830 square inches) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 7 cm (2.75 inches)

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

Note: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: http://www5.compaq.com/products/servers/ProLiantml370/index.html

Service and Support

HP Services provides a three-year, limited warranty, including Pre-Failure Warranty (coverage of hard drives, memory and processors) fully supported by a worldwide network of resellers and service providers. HP technical assistance is available 7x24, toll free in the United States and Canada. Telephone support services may be covered under warranty or available for an additional fee.

Note: Limited Warranty includes 3 year Parts, 3 year Labor, 3-year on-site support.

A full range of *CarePaq*™ packaged hardware and software services:

- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services
- Availability and recovery services

Note: For more information, customer/resellers can contact http://www.compaq.com/services.

Please see the following URL regarding Warranty Information For Your Compaq Products: http://www.compaq.com/support/warranty_upgrades/web_statements/176738.html

For additional information regarding Worldwide Limited Warranty and Technical Support, please see the following URL: ftp://ftp.compaq.com/pub/supportinformation/ejourney/176738.pdf

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.

Models

ML370T02P1400-512KB, 256MB *235439-xx1*	**Processor**	Intel Pentium III FC-PGA 2 1.40 GHz Processor standard (up to 2 supported)
	Cache Memory	512-KB second-level ECC cache
	Memory	256 MB (Standard) to 6 GB (Maximum) PC133-MHz Registered ECC SDRAM (2 x 1 Interleaved Memory)
	Network Controller	Compaq NC3163 Fast Ethernet NIC (embedded) 10/100 WOL
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter
	Hard Drive	None ship standard
	Internal Storage	582.4 GB maximum hot plug (with optional hard drives & drive cage) 509.6 GB maximum hot plug & non-hot plug (with optional hard drives)
	Optical Drive	40x IDE CD-ROM Drive
	Form Factor	Tower (5U)
ML370T02P1266-512KB, 256MB *188547-xx1*	**Processor**	Intel Pentium III FC-PGA 2 1.26 GHz Processor standard (up to 2 supported)
	Cache Memory	512-KB second-level ECC cache
	Memory	256 MB (Standard) to 6 GB (Maximum) PC133-MHz Registered ECC SDRAM (2 x 1 Interleaved Memory)
	Network Controller	Compaq NC3163 Fast Ethernet NIC (embedded) 10/100 WOL
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter
	Hard Drive	None ship standard
	Internal Storage	582.4 GB maximum hot plug (with optional hard drives & drive cage) 509.6 GB maximum hot plug & non-hot plug (with optional hard drives)
	Optical Drive	40x IDE CD-ROM Drive
	Form Factor	Tower (5U)
ML370R02P1400-512KB, 256MB *235440-xx1*	**Processor**	Intel Pentium III FC-PGA 2 1.40 GHz Processor standard (up to 2 supported)
	Cache Memory	512-KB second-level ECC cache
	Memory	256 MB (Standard) to 6 GB (Maximum) PC133-MHz Registered ECC SDRAM (2 x 1 Interleaved Memory)
	Network Controller	Compaq NC3163 Fast Ethernet NIC (embedded) 10/100 WOL
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter
	Hard Drive	None ship standard
	Internal Storage	582.4 GB maximum hot plug (with optional hard drives & drive cage) 509.6 GB maximum hot plug & non-hot plug (with optional hard drives)
	Optical Drive	40x IDE CD-ROM Drive
	Form Factor	Rack (5U)

Models

ML370R02 P1266-512KB, 256MB	**Processor**	Intel Pentium III FC-PGA 2 1.26 GHz Processor standard (up to 2 supported)
188548-xx1	**Cache Memory**	512-KB second-level ECC cache
	Memory	256 MB (Standard) to 6 GB (Maximum) PC133-MHz Registered ECC SDRAM (2 x 1 Interleaved Memory)
	Network Controller	Compaq NC3163 Fast Ethernet NIC (embedded) 10/100 WOL
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter
	Hard Drive	None ship standard
	Internal Storage	582.4 GB maximum hot plug (with optional hard drives & drive cage) 509.6 GB maximum hot plug & non-hot plug (with optional hard drives)
	Optical Drive	40x IDE CD-ROM Drive
	Form Factor	Rack (5U)

Country Code Key	XX=00	U.S.
	XX=01	Australia
	XX=42	EURO
	XX=03	UK
	XX=04	German (not available for Rack Models – please use EURO part number)
	XX=05	France (not available for Rack Models – please use EURO part number)
	XX=37	APD
	XX=AA	PRC

Options

ProLiant ML370 G2 Unique Options	Smart Array 5i Controller Option Kit	226593-B21
	Smart Array 5i Controller Option Kit (Japan)	226593-291
	Note: For complete list of devices supported the Smart array 5i Controller see the following: http://www5.compaq.com/products/quickspecs/10890_div/10890_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10890_na/10890_na.HTML (North America)	
	Smart Array 5i Plus Controller & Battery-Backed Write Cache (BBWC) Enabler Bundle Note: This option kit (PN 263697-xx1) supports the ProLiant ML370 G2 only.	263697-B21
	Smart Array 5i Plus Controller & Battery-Backed Write Cache (BBWC) Enabler Bundle (Japan) Note: This option kit (PN 263697-xx1) supports the ProLiant ML370 G2 only	263697-291
	Tower to Rack Conversion Kit	225074-B22
	ML370 Third Party Rail Kit	231122-B21
	ML370 Telco Rail Kit	231121-B21
	Compaq Hot Plug Redundant Power Supply Option Kit (U.S.)	225075-001
	Compaq Hot Plug Redundant Power Supply Option Kit (Australia)	225075-011
	Compaq Hot Plug Redundant Power Supply Option Kit (EURO)	225075-021
	Compaq Hot Plug Redundant Power Supply Option Kit (UK)	225075-031
	Compaq Hot Plug Redundant Power Supply Option Kit (Japan)	225075-291
	Compaq Hot Plug Redundant Fan Option Kit	225073-B21
ProLiant Essentials Value Pack Software	Rapid Deployment Pack, 1 User, V1.x Note: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-B21
	Rapid Deployment Pack, 1 User, V1.x (Japan) Note: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-291
	Rapid Deployment Pack, 10 Users, V1.x Note: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-B21
	Rapid Deployment Pack, 10 Users, V1.x (Japan) Note: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-291
	ProLiant Essentials Workload Management Pack (Featuring Resource Partitioning Manager version 2.0)	303284-B21
	ProLiant Essentials Recovery Server Option Pack	280189-B21
	Note: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.compaq.com/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information. Note: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.compaq.com/ProLiantessentials. Note: This Web site is available in English only.	
NetServer to ProLiant integrations services	HP NetServer to ProLiant integration and assessment service Note: HP identifies current levels of NetServer support, services, and management. This service helps maximize customer's ability to add ProLiant platforms into their current environment	304164-002
	HP TopTools to Insight Manager 7 installation and startup service Note: Provides on-site review, installation and configuration services for Insight Manager 7. HP will also re-create, as closely as possible, the views and reports from the customer's current TopTools configuration. This service assures a smooth transition to the ProLiant Essentials software.	304163-002
	HP NetServer to ProLiant Essentials Rapid Deployment Pack installation and startup service Note: Install and configure Rapid Deployment Pack in a test environment, then deploy a server image to a maximum of 250 systems in the production environment. This service helps to assure successful system deployment.	304162-002

Options

Processor	Pentium III P1400-512K Processor Option Kit	231118-B21
	Pentium III P1266-512K Processor Option Kit	231117-B21
	Pentium III P1133-512K Processor Option Kit	238888-B21
Memory	256-MB PC133-MHz Registered ECC SDRAM Memory Option Kit (2 x 128 MB)	201692-B21
	512-MB PC133-MHz Registered ECC SDRAM Memory Option Kit (2 x 256 MB)	201693-B21
	1024-MB PC133-MHz Registered ECC SDRAM Memory Option Kit (2 x 512 MB)	201694-B21
	2048-MB PC133-MHz Registered ECC SDRAM Memory Option Kit (2 x 1024 MB)	201695-B21
Internal Storage	ML3xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage (without fan)	244059-B21
	Note: The drive cage option kit (PN 244059-B21) has one 1″ drive bay and one 1.6″ drive bay, installed in two available removable media bays.	
Optical Drives	16X DVD-ROM Drive Option Kit (Carbon)	217053-B21
Hard Drives	***Wide Ultra3 SCSI – Universal Hot Plug***	
	72.8-GB Wide Ultra3 SCSI 10,000 rpm Drive (1″)	232432-B22
	36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1″)	176496-B22
	18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1″)	142673-B22
	36.4-GB Wide Ultra3 SCSI 15,000 rpm Drive (1″)	232916-B22
	18.2-GB Wide Ultra3 SCSI 15,000 rpm Drive (1″)	188122-B22
	Wide Ultra3 SCSI – Non-Hot Plug	
	36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1″)	176497-B21
	18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1″)	142674-B21
Storage Controllers	Smart Array 5I Controller Option Kit	226593-B21
	Smart Array 5I Controller Option Kit (Japan)	226593-291
	Note: For complete list of devices supported the Smart array 5I Controller see the following: http://www5.compaq.com/products/quickspecs/10890_div/10890_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10890_na/10890_na.HTML (North America)	
	Smart Array 5I Plus Controller & Battery Backed Write Cache (BBWC) Enabler Bundle Note: This option kit (PN 263697-xx1) supports the ProLiant ML370 G2 only.	263697-B21
	Smart Array 5I Plus Controller & Battery Backed Write Cache (BBWC) Enabler Bundle (Japan) Note: This option kit (PN 263697-xx1) supports the ProLiant ML370 G2 only	263697-291
	Smart Array 532 Controller	225338-B21
	Smart Array 532 Controller (Japan)	225338-291
	Smart Array 5302/128 Controller	283552-B21
	Smart Array 5302/128 Controller (Japan)	283552-291
	Smart Array 5304/256 Controller	283551-B21
	Smart Array 5304/256 Controller (Japan)	283551-291
	Smart Array 5312 Controller	238633-B21
	Smart Array 5312 Controller (Japan)	238633-291
	Ultra3 Channel Expansion Module for Smart Array 5300 Controller	153507-B21
	128-MB Cache Module for Smart Array 5302 Controller	153506-B21
	Advanced Data Guarding Module for Smart Array 5302 Controller	199371-B21
	RAID ADG Upgrade for Smart Array 5302	288601-B21
	256-MB Battery-Backed Cache Module Note: This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series controllers, MSA 1000 and the Smart Array Cluster Storage	254786-B21
	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	154457-B21
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21

Options

Communications	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21
	Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21
	Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade Module for NC3134 and NC3131	138604-B21
	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134 and NC3131	338456-B23
	Compaq NC6133 Gigabit Module 1000LX Upgrade Module for NC3134 and NC3131	338456-B24
	Compaq NC3133 Fast Ethernet Module 100FX Upgrade Module for NC3134 and NC3131	338456-B25
	Compaq NC7132 10/100/1000-T Upgrade Module for NC3134 and NC3131	153543-B21
	Compaq NC6136 Gigabit Server Adapter, 64-bit/66-MHz, PCI, 1000 SX	203539-B21
	Compaq NC7131 Gigabit Server Adapter, 64-bit/66-MHz, PCI, 10/100/1000-T	158575-B21
	Note: Any NC31XX, NC61XX or NC71XX NIC can be used for redundancy with the embedded NC3163 Network Controller	
Redundant Options	Compaq Hot Plug Redundant Power Supply Option Kit (U.S.)	225075-001
	Compaq Hot Plug Redundant Power Supply Option Kit (Australia)	225075-011
	Compaq Hot Plug Redundant Power Supply Option Kit (EURO)	225075-021
	Compaq Hot Plug Redundant Power Supply Option Kit (UK)	225075-031
	Compaq Hot Plug Redundant Power Supply Option Kit (Japan)	225075-291
	Compaq Redundant Hot Plug Fan Option Kit	225073-B21
Management Options	Compaq Remote Insight Lights-Out Edition II (NA, LA)	227251-001
	Compaq Remote Insight Lights-Out Edition II (EMEA)	227251-021
	Compaq Remote Insight Lights-Out Edition II (ROW)	227251-371
	Compaq Remote Insight Lights-Out Edition (NA, LA)	157866-001
	Compaq Remote Insight Lights-Out Edition (EURO)	157866-021
	Compaq Remote Insight Lights-Out Edition (APD, Japan)	157866-371
Security	HP/Atalla AXL600L SSL Accelerator Card for ProLiant Servers	524545-B21
	Compaq AXL300 Accelerator PCI Card for ProLiant Servers	227933-B21
Monitors	Flat Panel TFT8030 18″ Color Monitor Two-Tone (Carbon/Silver)	234362-xxx
	Flat Panel TFT1825 18″ Color Monitor Two-Tone (Carbon/Silver)	296751-xxx
	Flat Panel TFT7020 17″ Color Monitor Two-Tone (Carbon/Silver)	253216-xxx
	Flat Panel TFT1720 17″Color Monitor Two-Tone (Carbon/Silver)	295926-xxx
	Flat Panel TFT1520 15″Color Monitor Two-Tone (Carbon/Silver)	295925-xxx
	Flat Panel TFT2025 20″ Color Monitor Two-Tone (Carbon/Silver)	285550-xxx
	TFT5110R Flat Panel Monitor (Carbon)	281683-B21
	TFT5010R Flat Panel Monitor (NA)	217248-001
	TFT5010R Flat Panel Monitor (Int'l)	217248-B31
	TFT5010R Flat Panel Monitor (Japan)	217248-291
	Note: Monitors larger than 17″ may be too heavy for use in rack systems.	

Options

CRT Country Code Key

NORTH AMERICA (NA)/ LATIN AMERICA (LA)

Dash #	Description
-001	NA Kit with US Power Cord
-002	Carbon model with U.S. Power Cord
-003	Touch Screen model with U.S. Power Cord
-004	NAFTA model with US Power Cord (Made in Mexico)
-005	NA Kit with Powered Speakers
-006	GSA model with U.S. Power Cord
-007	NH MPR model with U.S. power cord (Made in Mexico)
-B24	TCO model without power cord (Digital Classic)
-201	EH model for Brazil (older Brazil models used -B29)
-202	EH model for Brazil Carbon (older Brazil models used -B29)
-C91	EH model for Mercosur countries
-C92	EH model for Mercosur countries Carbon
-B29	EH/ ALADI model for Latin America

Note: All NA/LA models above are NH.

EUROPE, MIDDLE EAST AND AFRICA (EMEA)

Dash #	Description
-021	NH/ TCO with Eurocord (DCE Hub)
-022	NH/ MPR with Eurocord (DCE Hub) (India)
-023	NH Carbon model with Eurocord (DCE Hub)
-024	NH Touch Screen model with Eurocord (DCE Hub)
-025	NH Kit with Speakers and Eurocord
-A91	NH/ TCO without power cord (Dubai hub)
-A92	NH/ MPR without power cord (Dubai hub)
-031	NH/ TCO with UK Cord (UK Hub)
-032	NH/ MPR with UK Cord (UK Hub)
-033	NH/ TCO carbon with UK Cord
-035	NH Kit with Speakers and UK Cord
-B21	SH/ MPR without power cord (S. Africa Hub)
-B23	SH/ TCO without power cord (S. Africa Hub)
-B27	SH/ TCO Carbon without power cord (S. Africa Hub)

PACIFIC/ AUSTRALIA (APD)

Dash #	Description
-B22	NH/ MPR without power cord
-B24	NH/ TCO without power cord
-B25	EH Carbon model without power cord
-B26	NH Touch Screen model without power cord
-011	SH model with AUZ/NZ power cord
-015	SH model with speakers AUZ/NZ power cord
-012	SH Carbon model with AUZ/NZ power cord
-AD1	NH model for Korea
-AD2	NH Carbon model for Korea
-B28	EH model without power cord
-B35	EH model with speakers no power cord (Singapore)

GREATER CHINA (GCD)

Dash #	Description
-AA1	NH/China Kit with CCIB label (Local Sales)
-AA2	NH/Carbon China Kit with CCIB label (Local Sales)
-KA1	NH/China Kit with CCIB label (External Sales/Bundles in HK)
-AB1	NH/Taiwan kit, made in Taiwan

Options

CRT Country Code Key *(continued)*

JAPAN (CKK)

Dash #	Description
-291	NH/Japan Kit with 3-2 pin adapter
-292	NH Carbon Japan Kit with 3-2 pin adapter

TFT Country Code Key

EUROPE, MIDDLE EAST & AFRICA (EMEA)

Dash #	Description
-021	Europe
-031	UK

NORTH AMERICA

Dash #	Description
-001	NA
-B24	All NA/LA models

APD

Dash #	Description
-011	Australia/NZ

JAPAN (CKK)

Dash #	Description
-291	Japan

Tape Drives

Note: In order to install certain tape drives internally, you may need to remove the rails that come standard on the drives and then re-insert the screws in the mounting holes. Mounting screws are shipped standard with server.

Internal and External DAT Tape Drives

Internal 12/24-GB DAT Drive (opal)	295513-B22
Internal 12/24-GB DAT Drive (opal) (Japan)	295513-292

Note: Please see the 12/24-GB DAT Drive QuickSpecs for additional options such as cassettes and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10239_div/10239_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10239_na/10239_na.HTML (North America)

HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, Internal (Carbon) (WW)	157769-B22
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Carbon) (NA)	157770-002
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Int'l) (Carbon)	157770-B32
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Japan) (Carbon)	157770-292
HP StorageWorks Internal 20/40-GB DAT, Hot Plug (Carbon)	215488-B21

Note: Please see the 20/40-GB DAT Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10426_div/10426_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10426_na/10426_na.HTML (North America)

Internal and External AIT Tape Drives

HP StorageWorks Internal AIT 35-GB, LVD Tape Drive (Carbon)	216884-B21
HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon)	216885-001
HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Int'l)	216885-B31
HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Japan)	216885-291
HP StorageWorks Internal AIT 35-GB, LVD, Hot Plug (Carbon)	216886-B21

Note: Please see the AIT 35-GB, LVD Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10712_div/10712_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10712_na/10712_na.HTML (North America)

Tape Drives *(continued)*

Internal and External AIT Tape Drives *(continued)*

HP StorageWorks AIT 50-GB Tape Drive, Internal (Carbon) (WW)	157766-B22
HP StorageWorks AIT 50-GB Tape Drive, External (Carbon) (NA)	157767-002
HP StorageWorks AIT 50-GB Tape Drive, External (Int'l) (Carbon)	157767-B32
HP StorageWorks AIT 50-GB Tape Drive, External (Japan) (Carbon)	157767-292
HP StorageWorks Internal AIT 50-GB, Hot Plug (Carbon)	215487-B21
HP StorageWorks AIT 50GB Tape Drive, 3U Rackmount	274333-B21

Note: Please see the AIT 50-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10425_div/10425_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10425_na/10425_na.HTML (North America)

HP StorageWorks Internal AIT 100-GB Tape Drive (Carbon)	249189-B21
HP StorageWorks External AIT 100-GB Tape Drive (Carbon)	249160-001
HP StorageWorks External AIT 100-GB Tape Drive (Carbon) (Int'l)	249160-B31
HP StorageWorks Internal AIT 100-GB, Hot Plug (Carbon)	249161-B21

Note: Please see the AIT 100-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11062_div/11062_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11062_na/11062_na.HTML (North America)

Internal and External DLT/ SDLT Tape Drives

Note: Please see the 20/40-GB DLT Drive QuickSpecs for additional options such as data and cleaning cartridges, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10234_div/10234_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10234_na/10234_na.HTML (North America)

HP StorageWorks 40/80-GB DLT Tape Drive, Internal (Carbon)	146196-B22
HP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (NA)	146197-B22
HP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (Japan)	146197-293
HP StorageWorks Rackmount DLT 40/80, 3U (Single Drive)	274332-B21
HP StorageWorks Rackmount DLT 40/80, Dual Drive 3U (Two Drives)	274335-B21
HP StorageWorks Rackmount DLT 40/80, Tape Array III, 5U (Four Drives)	274337-B21

Note: Please see the 40/80-GB DLT Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10658_div/10658_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10658_na/10658_na.HTML (North America)

Tape Drives *(continued)*

Internal and External DLT VS Tape Drives	
HP StorageWorks DLT VS 40/80 Tape Drive, Internal (Carbon) All	280129-B21
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) All	280129-B22
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (WW)	280129-B31
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (Japan)	280129-291
Note: Please see the DLT VS 40/80 Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/11403_div/11403_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/11403_na/11403_na.HTML (North America)	
HP StorageWorks Rackmount SDLT 110/220, 3U (Single Drive)	274331-B21
HP StorageWorks Rackmount SDLT 110/220, Dual-Drive, 3U (Two Drives)	274334-B21
HP StorageWorks Rackmount SDLT 110/220, Tape Array III, 5U (Four Drives)	274336-B21
Note: Please see the SDLT 110/220-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/10772_div/10772_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10772_na/10772_na.HTML (North America)	
HP StorageWorks SDLT 160/320, Internal (carbon) (WW)	257319-B21
HP StorageWorks SDLT 160/320, External NA (carbon)	257319-001
HP StorageWorks SDLT 160/320, External WW (carbon)	257319-B31
HP StorageWorks SDLT 160/320, External Japan (carbon)	257319-291
Note: Please see the SDLT 160/320-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/11406_div/11406_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/11406_na/11406_na.HTML (North America)	
External SuperLoader	
DLT1 1280 SuperLoader	268664-B21
Note: Please see the StorageWorks™ DLT1 1280 SuperLoader by Compaq QuickSpecs for additional options and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/11330_div/11330_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/11330_na/11330_na.HTML (North America)	

Internal and External LTO Ultrium Tape Drives	
HP StorageWorks LTO Ultrium 230 Tape Drive, Internal (Carbon) WW	Q1515A
HP StorageWorks LTO Ultrium 230 Tape Drive, External (Carbon) NA	Q1516A
HP StorageWorks LTO Ultrium 230 Tape Drive, External (Carbon) Int'l	Q1517A
Note: Please see the HP StorageWorks LTO Ultrium Tape Drive QuickSpecs for additional options such as controllers, and other related items, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/11415_div/11415_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/11415_na/11415_na.HTML (North America)	

Options

Tape Drives *(continued)*

AIT Autoloader

HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (NA)	280349-001
HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (Int'l)	280349-B31
HP StorageWorks AIT 35 GB Autoloader Tabletop (Carbon) (NA)	292355-001
HP StorageWorks AIT 35 GB Autoloader, Tabletop (Carbon) (Int'l)	292355-B31

Note: Please see the AIT 35-GB Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11404_div/11404_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11404_na/11404_na.HTML (North America)

Rackmount Tape Drive Kits

3U Rackmount Kit	274338-B21

Note: The 3U Rackmount Kit (PN 274338-B21) can support up to (2) full-height or (4) half-height tape drives and compatible with multiple Single-Ended and LVD SCSI Tape Drives including the 12/24-GB DAT, 20/40-GB DAT, 20/40-GB DAT DDS-4 8 Cassette Autoloader, AIT 35-GB LVD, AIT 50 GB, 20/40-GB DLT, 40/80-GB DLT, and the SDLT 110/220-GB Tape Drives.

5U Rackmount Kit	274339-B21

Note: The 5U Rackmount Kit (PN 274339-B21) can support up to (4) full-height tape drives and is compatible with all Compaq DLT/SDLT tape drives including the 20/40-GB DLT, 35/70-GB DLT, 40/80-GB DLT, and the SDLT 110/220-GB tape drives.

Note: Please see the Compaq Rackmount Tape Drive Kits QuickSpecs for additional information regarding these kits, please see the following:
http://www5.compaq.com/products/quickspecs/10854_div/10854_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10854_na/10854_na.HTML (North America)

Rackmount Tape Drive Cable Kits

LVD Cable Kit, VHDCI/HD68 Note: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	168048-B21
LVD Cable Kit, HD68/HD68 Note: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	242381-B21

Tape Automation

Entry Level Tape Libraries

SSL2020 AIT Library

SSL2020 AIT Mini-Library 1 drive, 20 slot Table Top	175195-B21
SSL2020 AIT Mini-Library 2 drive, 20 slot Table Top	175195-B22
SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount	175196-B21
SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount	175196-B22
SSL2020 AIT Library Pass Thru with Transport	175312-B21
SSL2020 AIT Library Pass Thru Extender	175312-B22
AIT 50-GB Drive Add-On LVD Drive for SSL2020 AIT Library	175197-B21

Tape Automation *(continued)*

Required Adapters/Controllers for SSL2020 AIT Library	
SAN Access Module for Smart Array 5302 Controller	216687-B21
SAN Access Module for Smart Array 5302 Controller (Japan)	216687-291
Note: Please see the SSL2020 Automated AIT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/10580_na/10580_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10580_div/10580_div.HTML (Division/World Wide)	
MSL5000 Libraries	
Mainstream Tape Library	
MSL5026DLX DLT Library	
MSL5026DLX, 1 40/80-GB DLT, LVD Table Top	231821-B21
MSL5026DLX, 2 40/80-GB DLT, LVD Table Top	231821-B22
MSL5026DLX, 1 40/80-GB DLT, LVD Rackmount	231891-B21
MSL5026DLX, 2 40/80-GB DLT, LVD Rackmount	231891-B22
MSL5026SLSDLT Library	
MSL5026SL Library, SDLT 110/220, 1 Drive, LVD, Table Top	231822-B21
MSL5026SL Library, SDLT 110/220, 2 Drives, LVD, Table Top	231822-B22
MSL5026SL Library, SDLT 110/220, 1 Drive, LVD, Rackmount	231892-B21
MSL5026SL Library, SDLT 110/220, 2 Drives, LVD, Rackmount	231892-B22
MSL5K Field Upgrade SDLT 110/220 Drive, LVD	231823-B22
Note: Please see the *StorageWorks* MSL5026DLX or MSL5026SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/10860_na/10860_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10860_div/10860_div.HTML (Division/World Wide)	
MSL5026SL, Tabletop, 1 SDLT Drive (Graphite)	302511-B21
MSL5026SL, Tabletop, 2 SDLT Drives (Graphite)	302511-B22
MSL5026SL, Rackmount, 1 SDLT Drive (Graphite)	302512-B21
MSL5026SL, Rackmount, 2 SDLT Drive (Graphite)	302512-B22
Note: Please see the *StorageWorks* MSL5026SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/11440_na/11440_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11440_div/11440_div.HTML (Division/World Wide)	
MSL5026S2 SDLT Library	
MSL5026S2, Rackmount, 0 Drive Library	293472-B21
MSL5026S2, Rackmount, 1 Drive, SDLT2 Library	293472-B22
MSL5026S2, Rackmount, 2 Drives, SDLT2 Library	293472-B23
MSL5026S2FC, Rackmount, 1 Drive, SDLT2 Library	293472-B24
MSL5026S2FC, Rackmount, 2 Drives, SDLT2 Library	293472-B25
MSL5026S2, Tabletop, 1 Drive, SDLT2 Library	293473-B21
MSL5026S2, Tabletop, 2 Drives, SDLT2 Library	293473-B22
Note: Please see the StorageWorks MSL5026S2 Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/11453_na/11453_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11453_div/11453_div.HTML (Division/World Wide)	

Options

Tape Automation *(continued)*

Departmental Tape Library

MSL5052SL SDLT Library

MSL5052, Rackmount, 0 Drive, SDLT ALL	255102-B21
MSL50502SL, SDLT, 110/220, 2 Drives, LVD, Table Top	249490-B21
MSL50502SL, SDLT, 110/220, 2 Drives, LVD, Rackmount	249491-B21

Note: Please see the *StorageWorks* MSL5052SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11061_na/11061_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11061_div/11061_div.HTML (Division/World Wide)

MSL5052S2 SDLT Library

MSL5052S2, Tabletop, 2 Drives, SDLT2 Library	293476-B21
MSL5052S2, Rackmount, 2 Drives, SDLT2 Library	293474-B21
MSL5052S2FC, Rackmount, 2 Drives, SDLT2 Library	293474-B24

Note: Please see the *StorageWorks* MSL5052S2 Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11442_na/11442_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11442_div/11442_div.HTML (Division/World Wide)

MSL5030 LTO Library

MSL5030L1, Rackmount, 0 Drive Library	301897-B21
MSL5030L1, Rackmount, 1 Drive, LTO1 Library	301897-B22
MSL5030L1, Rackmount, 2 Drives, LTO1 Library	301897-B23
MSL5030L1FC, Rackmount, 1 Drive, LTO1 Library	301897-B24
MSL5030L1FC, Rackmount, 2 Drives, LTO1 Library	301897-B25
MSL5030L1, Tabletop, 1 Drive, LTO1 Library	301898-B21
MSL5030L1, Tabletop, 2 Drives, LTO1 Library	301898-B22

Note: Please see the StorageWorks MSL5030 LTO Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11439_na/11439_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11439_div/11439_div.HTML (Division/World Wide)

MSL5060 LTO Library

MSL5060L1, Rackmount, 0 Drive Library	301899-B21
MSL5060L1, Rackmount, 2 Drives, LTO1 Library	301899-B22
MSL5060L1FC, Rackmount, 2 Drives, LTO1 Library	301899-B23
MSL5060L1, Tabletop, 2 Drives, LTO1 Library	301900-B21

Note: Please see the StorageWorks MSL5060 LTO Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11438_na/11438_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11438_div/11438_div.HTML (Division/World Wide)

MSL5000 series Libraries Options

MSL5K Field Upgrade SDLT 110/220 Drive, LVD	231823-B22
MSL5000 SDLT2 Upgrade Drive	293475-B21
MSL5000 LTO1 Upgrade Drive	301901-B21
MSL5000 Dual Magazine LTO	301902-B21
MSL5000 Dual Magazine DLT	232136-B21

Required Adapters for MSL5000 series Libraries

64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291

Options

Smart Array Cluster Storage	Smart Array Cluster Storage	201724-B21
	Smart Array Cluster Storage Redundant Controller Option Kit	218252-B21
	128-MB Cache Module for Smart Array 5302 Controller	153506-B21
	256-MB Battery-Backed Cache Module	254786-B21
Cluster Options	Compaq ProLiant Cluster HA/F100 for MSA1000	252408-B21
	Compaq ProLiant Cluster HA/F100 for MSA1000 (Japan)	252408-291
	Compaq ProLiant Cluster HA/F200 for MSA1000	252409-B21
	Compaq ProLiant Cluster HA/F200 for MSA1000 (Japan)	252409-291
	Note: For additional information regarding the Compaq ProLiant Cluster for HA/F100, HA/F200 for MSA1000 please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/11035_na/11035_na.html (North America) http://www5.compaq.com/products/quickspecs/11035_div/11035_div.html (Division/World Wide)	
	Compaq ProLiant Cluster HA/F100 for Windows NT and 2000 Advanced Server	309816-B21
	Compaq ProLiant Cluster HA/F200 Upgrade Kit (NT 4.0EE to W2K AS)	176848-B22
	Compaq ProLiant Cluster HA/F200 for Windows NT and 2000 Advanced Server	380357-B23
	Compaq ProLiant Cluster HA/F200 for Windows NT and 2000 Advanced Server (Japan)	380357-293
	Note: For additional information regarding the Compaq ProLiant Cluster for HA/F100, HA/F200 for Windows NT and 2000 Advanced Server please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/10777_na/10777_na.html (North America) http://www5.compaq.com/products/quickspecs/10777_div/10777_div.html (Division/World Wide)	
	ProLiant Cluster HA/F500 Basic Kit for MA8000/EMA16000	103250-B25
	ProLiant Cluster HA/F500 Enhanced Kit for MA8000/EMA16000	379937-B25
	ProLiant Cluster HA/F500 Enhanced DT Kit for MA8000/EMA16000	164227-B23
	Note: For additional information regarding the Compaq ProLiant Cluster for HA/F500 please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/10232_na/10232_na.html (North America) http://www5.compaq.com/products/quickspecs/10232_div/10232_div.html (Division/World Wide)	
	ProLiant Cluster HA/F500 Basic Kit for MA8000/EMA16000	103250-B25
	Note: For additional information regarding the Compaq ProLiant Cluster HA/F500 for Enterprise Virtual Array please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/11055_na/11055_na.html (North America) http://www5.compaq.com/products/quickspecs/11055_div/11055_div.html (Division/World Wide)	
External Storage – Tower and Rack	StorageWorks Enclosure Model 4314T (tower) by Compaq	190210-001
	StorageWorks Enclosure Model 4314T (tower) (Int'l)	190210-B31
	StorageWorks Enclosure Model 4314T (tower) (Japan)	190210-291
	StorageWorks Enclosure Model 4314R (rack-mountable)	190209-001
	StorageWorks Enclosure Model 4314R (rack-mountable) (Int'l)	190209-B31
	StorageWorks Enclosure Model 4314R (rack-mountable) (Japan)	190209-291
	StorageWorks Enclosure Model 4354R (rack-mountable)	190211-001
	StorageWorks Enclosure Model 4354R (rack-mountable) (Int'l)	190211-B31
	StorageWorks Enclosure Model 4354R (rack-mountable) (Japan)	190211-291
	Note: The StorageWorks Enclosure 4300 Family supports the Wide Ultra2/Ultra3 1″ Hot Plug Hard Drives.	
	StorageWorks Enclosure 4200 Redundant Power Supply Option	119826-B21
	StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option	190212-B21
	StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option	190213-B21
	StorageWorks Enclosure Tower to Rack Conversion Kit	150213-B21

Options

MSA1000	MSA 1000	201723-B21
	MSA 1000 Controller	218231-B21
	MSA Fibre Channel I/O Module	218960-B21
	MSA1000 Fabric Switch	218232-B21
	MSA 1000 Fibre Channel Adapter (FCA) 2101	245299-B21
	Note: Please see the StorageWorks Modular SAN Array 1000 QuickSpecs for additional options and configuration information at: http://www5.compaq.com/products/quickspecs/11033_na/11033_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11033_div/11033_div.HTML (Division/World Wide)	
StorageWorks RAID Array 4100	StorageWorks Raid Array 4100 (rack)	146013-001
	StorageWorks Raid Array 4100 (rack) (Int'l)	146013-B31
	StorageWorks Raid Array 4100 (rack) (Japan)	146013-291
	Fibre Channel Storage Hub 7	234453-001
	Fibre Channel Storage Hub 7 (Int'l)	234453-B31
	Fibre Channel Storage Hub 7 (Japan)	234453-291
	Compaq Storage Hub 7 Universal Rack Mount Kit	136127-B21
	Fibre Channel Host Adapter Redundancy Kit	174681-B21
	StorageWorks Raid Array 4000 Redundant Array Controller	223187-B21
	StorageWorks Fibre Channel Arbitrated Loop Switch 8	177862-B21
	StorageWorks Fibre Channel Arbitrated Loop Switch 8 (Japan)	177862-291
	StorageWorks Fibre Channel Arbitrated Loop 3-Port Expansion Module	177863-B21
	StorageWorks Fibre Channel SAN Switch 8-EL	176219-B21
	GBIC-SW Connector Kit (two each)	234459-B21
	GBIC-LW Connector Kit (two each)	340412-B21
	Fibre Channel Connection Kit, 3 SW GBICS, 2 Cables	380579-B21
	Fibre Channel Connection Kit, 2 SW GBICS, 2 Cables	380596-B21
	Fibre Channel Short Wave GBIC	380561-B21
	Fibre Channel Long Wave GBIC	127508-B21
	2m Multi-Mode Fibre Channel Cable	234457-B21
	5m Multi-Mode Fibre Channel Cable	234457-B22
	15m Multi-Mode Fibre Channel Cable	234457-B23
	30m Multi-Mode Fibre Channel Cable	234457-B24
	50m Multi-Mode Fibre Channel Cable	234457-B25
	Note: Please see the StorageWorks RAID Array 4100 QuickSpecs for FC Hubs, FC switches, software support, host adapters/controllers, disks, and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10435_na/10435_na.html (North America) http://www5.compaq.com/products/quickspecs/10435_div/10435_div.html (Division/World Wide)	
StorageWorks Modular Array 8000/Enterprise Modular Array 12000	EMA12000 D14 60Hz	175990-B21
	EMA12000 D14 50Hz	175990-B22
	EMA12000 S14 60Hz	175991-B21
	EMA12000 S14 50Hz	175991-B22
	MA8000 60Hz	175992-B21
	MA8000 50Hz	175992-B22
	EMA12000 Blue 60Hz	175993-B21
	EMA12000 Blue 50Hz	175993-B22
	Note: Options include controller, solution kits, ACS. MA8000/EMA12000 includes controller shelf, drive shelves and cabinet. Packaging upgrade to RA8000/ESA12000.	
	Note: Please see the StorageWorks MA8000/EMA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10545_na/10545_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10545_div/10545_div.HTML (Division/World Wide)	

Options

StorageWorks Enterprise Modular Array 16000 FC	EMA16000 D14 50Hz (opal)	238792-B22
	EMA16000 D14 60Hz (opal)	238792-B21
	EMA16000 S14 50Hz (opal)	238791-B22
	EMA16000 S14 60Hz (opal)	238791-B21
	Note: Models include: Dual HSG80 controllers in each Model 2200 enclosure (2 pairs per single bus configuration, 4 pairs per dual bus configuration) with 1GB cache per controller pair, and 12 14-bay drive enclosures with redundant power supplies. Configure-to-Order (CTO) builds are available. Options include ACS, platform kits and *SANworks*™ software by Compaq.	
	Note: Please see the StorageWorks EMA16000 QuickSpecs for FC switches, platform software, host adapters, disks and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10812_na/10812_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10812_div/10812_div.HTML (Division/World Wide)	
StorageWorks Options	StorageWorks Fibre Channel SAN Switches 8-EL	176219-B21
	64-bit/66-MHz Fibre Channel Host Adapter	120186-B21
	Note: The 64-bit/66-Mhz Fibre Channel Host Adapter has been qualified for use with the Compaq RAID Array 4000 family of products, the Enterprise Backup Solution, and the RAID Array 8000 under NetWare.	
	64-bit/66-MHz Fibre Channel Host Adapter (Japan)	120186-291
	Note: The 64-bit/66-Mhz Fibre Channel Host Adapter has been qualified for use with the Compaq RAID Array 4000 family of products, the Enterprise Backup Solution (EBS) offerings, and the RAID Array 8000 under NetWare.	
	StorageWorks SAN Switch 2/8-EL	258707-B21
	StorageWorks SAN Switch 2/8-EL Upgrade	288162-B21
	StorageWorks SAN Switch 2/16-EL	283056-B21
	StorageWorks SAN Switch 2/16-EL Upgrade	288250-B21
Compaq UPS Power Cord Reference Guide	***Please see the Compaq UPS Power Cord Reference Guide that lists cable descriptions, requirements, and specifications for Compaq UPS units.*** http://www.compaq.com/support/techpubs/user_reference_guides/104077-002.html	
Uninterruptible Power Systems – Tower	UPS Model T700 (700VA, 500 Watt), Low Voltage (NA)	204015-001
	UPS Model T700 (700VA, 500 Watt), High Voltage (Int'l)	204015-B31
	UPS Model T700 (700VA, 500 Watt), Low Voltage (Japan)	204015-291
	UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (NA)	204155-001
	UPS Model T1000 XR ((1000VA, 700 Watt), High Voltage (Int'l)	204155-B31
	UPS Model T1500 XR (1440VA, 1050 Watt), Low Voltage (NA)	204155-002
	UPS Model T1500 XR (1500VA, 1050 Watt), High Voltage (Int'l)	204155-B32
	UPS Model T1500 XR (1500VA, 1050 Watt), Low Voltage (Japan)	204155-291
	UPS Model T2200 XR (1920VA, 1600 Watt), Low Voltage (NA)	204451-001
	UPS Model T2200 XR (2080VA, 1600 Watt), High Voltage (NA)	204451-002
	UPS Model T2200 XR (2200VA, 1600 Watt), Low Voltage (NA)	204451-B31
	UPS Model T2200 XR (2200VA, 1600 Watt), Low Voltage (Japan)	204451-291

Options

Uninterruptible Power Systems – Rack	Compaq UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA)		204404-001
	Compaq UPS R1500 XR (1500VA, 1340 Watt), High Voltage (Int'l)		204404-B31
	Compaq UPS R1500 XR (1500VA, 1340 Watt), Low Voltage (Japan)		204404-291
	Compaq UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA)		192186-001
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA		192186-002
	Compaq UPS R3000 XR (2400VA, 2250 Watt), Low Voltage (Japan)		192186-291
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan)		192186-292
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord)		192186-B31
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug)		192186-B32
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug)		192186-B33
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug)		192186-AR1
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (NA) Note: The UPS R6000 has a hardwired input.		347207-001
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Int'l) Note: The UPS R6000 has a hardwired input.		347207-B31
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Japan) Note: The UPS R6000 has a hardwired input.		347207-291
	UPS R12000 XR N+x (200-240V) (WW-hardwired) Note: The UPS R12000 XR has a hardwired input and output.	207552-B22	
UPS Options	SNMP Serial Port Card Note: Supports tower and rack UPS XR models ranging from 1000 – 3000VA		192189-B21
	Six Port Card Note: Supports tower and rack UPS XR models ranging from 1000 – 3000VA	192185-B21	
	High to Low Voltage Transformer (250VA) Note: Supports R6000 UPS series only. 2.5 amps @ 125 Volts max output across two NEMA 5-15.	388643-B21	
	Extended Runtime Module, T1000 XR Note: 2U each, two ERM maximum.	218967-B21	
	Extended Runtime Module, T1500 XR/T2200 XR Note: 3U each, one ERM maximum.	218969-B21	
	Extended Runtime Module, R1500 XR Note: 2U each, two ERM maximum.	218971-B21	
	Extended Runtime Module, R3000 XR Note: 2U each, one ERM maximum.	192188-B21	
	Extended Runtime Module, R6000 Note: 3U each, two ERM maximum.	347224-B21	
	Extended Runtime Module, R12000 XR, 4U Note: 4U each, two ERM maximum.	217800-B21	
	SNMP-EN Adapter Note: Supports R6000 UPS series only.	347225-B21	
	Multi-Server UPS Card Note: Supports R6000 UPS series only.	123508-B21	
	Scalable UPS Card Note: Supports R6000 UPS series only.	123509-B21	

Options

Rack-Mountable PDUs – 1U/0U (Up to 12 outlets) Note: 0U mounting brackets shipped with the unit (separate option kit for 1U mounting).	Compaq Power Distribution Unit-16A (200 to 240V) (WW)	207590-B21
	Note: The 16A PDU also connects to the high volt models of the UPS R3000 XR (need cable PN 340653-001 (NA)) and the UPS R6000 models. Cable PN 340653-001 required if connecting to UPS R3000 XR (192186-002 NA-High Volt model only).	
	Compaq Power Distribution Unit-24A (200 to 240V) (NA, Japan, LA)	207590-D72
	Note: This PDU may also be used to connect to the low volt UPS R3000 XR model.	
	Compaq Power Distribution Unit-32A (200 to 240V) (Int'l)	207590-B31
	Compaq Power Distribution Unit-40A (200 to 240V) (WW)	207590-B23
	Compaq Power Distribution Unit-24A (100 to 127V) (NA, Japan, LA)	207590-D71
	1U PDU Mounting Brackets	215852-B21
	Note: The 1U PDU Mounting Brackets are required when mounting PDU's PN 207590-xxx series in 1U configurations.	
	Note: Please see the following Power Distribution Unit (Zero-U/1U PDU) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/10838_na/10838_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10838_div/10838_div.HTML (Division/World Wide)	
Dual Input PDUs – 1U/0U (Up to 12 outlets) Note: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks).	Compaq Dual Input Power Distribution Unit-24A High Voltage (NA only)	191186-001
	Compaq Dual Input Power Distribution Unit-24A High Voltage (Int'l)	191186-B31
	Note: Please see the following Power Distribution Unit (Zero-U/1U PDU) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/10838_na/10838_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10838_div/10838_div.HTML (Division/World Wide)	
Modular PDUs -1U/0U (Up to 32 outlets) Note: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks).	Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan)	252663-D71
	Note: This mPDU (252663-D71) may also be used to connect the low volt model of the UPS R3000 XR.	
	Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan)	252663-D72
	Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l)	252663-B31
	Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW)	252663-B21
	Note: This mPDU (252663-B21), 40A model has a hardwired input.	
	Note: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/11041_na/11041_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11041_div/11041_div.HTML (Division/World Wide)	
Rack Builder	***Please see the Compaq Rack Builder for configuration assistance at*** http://www.compaq.com/rackbuilder/.	
Rack Conversion Kit	Tower to Rack Conversion Kit	225074-B22
Compaq Rack 10000 Series (Graphic Metallic)	Compaq Rack 10842 (42U, 800mm wide) – Pallet	257415-B21
	Compaq Rack 10842 (42U, 800mm wide) – Shock Pallet	257415-B22
	Compaq Rack 10647 (47U) – Pallet	245160-B21
	Compaq Rack 10647 (47U) – Crated	245160-B23
	Compaq Rack 10642 (42U) – Pallet	245161-B21
	Compaq Rack 10642 (42U) – Shock Pallet	245161-B22
	Compaq Rack 10642 (42U) – Crated	245161-B23
	Compaq Rack 10636 (36U) – Pallet	245162-B21
	Compaq Rack 10636 (36U) – Shock Pallet	245162-B22
	Compaq Rack 10636 (36U) – Crate	245162-B23
	Compaq Rack 10622 (22U) – Pallet	245163-B21
	Compaq Rack 10622 (22U) – Shock Pallet	245163-B22
	Compaq Rack 10622 (22U) – Crated	245163-B23
	Note: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks	
	Note: It is mandatory to use a shock pallet in order to ship racks with equipment installed.	
	Not all Compaq equipment is qualified to be shipped in the Rack 10000 series.	

Options

Compaq Rack 9000 Series (Opal)	Compaq Rack 9142 (42U) – Pallet	120663-B21
	Compaq Rack 9142 (42U) – Shock Pallet	120663-B22
	Compaq Rack 9142 (42U) – Crated	120663-B23
	Compaq Rack 9136 (36U) – Pallet	120664-B21
	Compaq Rack 9136 (36U) – Shock Pallet	120664-B22
	Compaq Rack 9136 (36U) – Crated	120664-B23
	Compaq Rack 9122 (22U) – Pallet	120665-B21
	Compaq Rack 9122 (22U) – Shock Pallet	120665-B22
	Compaq Rack 9122 (22U) – Crated	120665-B23
	Compaq Rack 9842 (800mm wide, 42U) – Pallet	222192-B21
	Note: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks	
Rack Options for Compaq Rack 10000 Series	Rack Blanking Panels – Graphite (Multi) Note: Contains one each of 1U, 2U, 3U, and 4U panel.	253214-B26
	Rack Blanking Panels – Graphite (1U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (1U).	253214-B21
	Rack Blanking Panels – Graphite (2U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (2U).	253214-B22
	Rack Blanking Panels – Graphite (3U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (3U).	253214-B23
	Rack Blanking Panels – Graphite (4U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (4U).	253214-B24
	Rack Blanking Panels – Graphite (5U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (5U).	253214-B25
	800mm Wide Stabilizer Kit (Graphite) Note: Supported by the Rack 10842 cabinet only.	255488-B21
	600mm Stabilizer Kit – Graphite	246107-B21
	Baying Kit for Rack 10000 series (Carbon)	248929-B21
	42U Side Panel – Graphite Metallic	246099-B21
	110V Fan Kit (Graphite Note: Roof Mount Includes power cord withIEC320-C13 to Nema 5-15P.	257413-B21
	220V Fan Kit (Graphite) Note: Roof Mount Includes power cord with IEC320-C13 to Nema 6-15P.	257414-B21
	36U Side Panel – Graphite Metallic	246102-B21
	47U Side Panel – Graphite Metallic	255486-B21
	9000/10000 Series Offset Baying Kit (42U) Note: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.	248931-B21
Rack Options for Compaq Rack 9000 Series	Baying/Coupling Kit	120669-B21
	42U Side Panel Note: The 42U Side Panel (PN 120670-B21) supports the Compaq Rack 9142 and Compaq Rack 9842.	120670-B21
	36U Side Panel Note: The 36U Side Panel (PN 120671-B21) supports the Compaq Rack 9136.	120671-B21
	800mm Stabilizer Option Kit (Opal) Note: The 800mm Stabilizer Kit (PN 234493-B21) supports the Rack 9842 only.	234493-B21
	600mm Stabilizer Option Kit	120673-B21
	9142 Extension Kit Note: The 9142 Extension Kit (PN 120679-B21) supports the Compaq Rack 9142 only.	120679-B21
	9142 Split Rear Door (Opal) Note: The 9142 Split Rear Door (PN 254045-B21) supports the 600 mm wide, 42U 9000 series rack.	254045-B21
	9136 Extension Kit	218216-B21
	9142 Short Rear Door Note: The 9142 Short Rear Door (PN 218217-B21) supports the Compaq Rack 9142 only.	218217-B21
	9136 Short Rear Door	218218-B21

Options

Rack Options for Compaq Rack 9000 Series *(continued)*	Rack Blanking Panel (Multi) Note: Kit includes four panels in 1U, 2U, 4U, and 8U.	169940-B21
	Rack Blanking Panels (1U) Note: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (1U).	189453-B21
	Rack Blanking Panels (2U) Note: The Rack Blanking Panels (PN 189453-B22) contains 10 each of (2U).	189453-B22
	Rack Blanking Panels (3U) Note: The Rack Blanking Panels (PN 189453-B23) contains 10 each of (3U).	189453-B23
	Rack Blanking Panels (4U) Note: The Rack Blanking Panels (PN 189453-B24) contains 10 each of (4U).	189453-B24
	Rack Blanking Panels (5U) Note: The Rack Blanking Panels (PN 189453-B25) contains 10 each of (5U).	189453-B25
	9000/10000 Series Offset Baying Kit(42U) Note: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.	248931-B21
Rack Options for Compaq Rack 7000 Series	High Air Flow Rack Door Insert for 7122	157847-B21
	High Air Flow Rack Door Insert for 7142	327281-B21
	High Air Flow Rack Door Insert for 7142 (6 pack)	327281-B22
	Compaq Networking Cable Management Kit	292407-B21
	Compaq Networking Recessed Rail Management Kit	292406-B21
	Compaq Rack Extension Kit for 7142	154392-B21
Rack Options for Compaq Rack 7000, 9000 and 10000 Series	Monitor Utility Shelf	303606-B21
	Ballast Option Kit	120672-B21
	100kg Sliding Shelf	234672-B21
	Rack Rail Adapter Kit (25″ depth)	120675-B21
	Monitor/Utility Shelf - Graphite	253449-B21
	Depth Adjustable Fixed Rail	332558-B21
	Cable Management D-Rings Kit	168233-B21
	Console Management Controller (CMC) Option Kit	203039-B21
	Console Management Controller (CMC) Sensors Option Kit	203039-B22
	Console Management Controller (CMC) Locking Option Kit	203039-B23
	Console Management Controller (CMC) Smoke Sensors Option Kit	203039-B24
	Server Console Switch 1 x 2 port (100 to 230 VAC)	120206-001
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Int'l)	120206-B31
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Japan)	120206-291
	Server Console Switch 1 x 4 port (100 to 230 VAC)	400336-001
	Server Console Switch 1 x 4 port (100 to 230 VAC) (Int'l)	400336-B31
	Server Console Switch 1 x 4 port (100 to 230 VAC) (Japan)	400336-291
	Server Console Switch 1 x 8 port (100 to 230 VAC)	400337-001
	Server Console Switch 1 x 8 port (100 to 230 VAC) (Int'l)	400337-B31
	Server Console Switch 1 x 8 port (100 to 230 VAC) (Japan)	400337-291
	Server Console Switch 2 x 8 port (100 to 230 VAC)	400338-001
	Server Console Switch 2 x 8 port (100 to 230 VAC) (Int'l)	400338-B31
	Server Console Switch 2 x 8 port (100 to 230 VAC) (Japan)	400338-291
	Server Console Switch 2 x 8 port (48 VDC)	400542-B21
	IP Console Switch Box, 1x1x16	262585-B21
	IP Console Switch Box, 3x1x16	262586-B21
	IP Console Interface Adapter, 8 pack	262587-B21
	IP Console Interface Adapter, 1 pack	262588-B21
	IP Console Expansion Module	262589-B21
	KVM 9 PIN Adapter (4 Pack)	149361-B21
	CPU to Server Console Cable, 12′	110936-B21
	CPU to Server Console Cable, 20′	110936-B22
	CPU to Server Console Cable, 40′	110936-B23
	CPU to Server Console Cable, 3′	110936-B24

Options

Rack Options for Compaq Rack 7000, 9000 and 10000 Series *(continued)*

CPU to Server Console Cable, 7′				110936-B25
CPU to Server Console Cable (Plenum Rated) 20′				149363-B21
CPU to Server Console Cable (Plenum Rated) 40′				149364-B21
IP CAT5 Cable 3′, 4 pack				263474-B21
IP CAT5 Cable 6′, 8 pack				263474-B22
IP CAT5 Cable 12′, 8 pack				263474-B23
IP CAT5 Cable 20′, 4 pack				263474-B24
IP CAT5 Cable 40′, 1 pack				263474-B25
Switch Box Connector Kit (115 V)				144007-001
Switch Box Connector Kit (230 V)				144007-002
Switch Box Connector Kit (High Voltage) (Int'l)				144007-B33
1U Rack Keyboard Drawer				338056-B21
Keyboard/Monitor/Mouse extension cables				169989-001
1U Rack Keyboard & Drawer (Carbon)				257054-xx1
Note: The 1U Rack Keyboard & Drawer (PN 257054-xx1) is to be used with the Keyboards for Racks with Trackball (PN 158649-xxx).				
Country Code Key *(for 1U Rack Keyboard & Drawer (PN 257054-xx1))*				
XX = 001	US	XX = 091	Norway	
XX = 031	UK	XX = 101	Sweden/Finland	
XX = 041	Germany	XX = 111	Switzerland	
XX = 051	France	XX = 131	Portugal	
XX = 061	Italy	XX = 181	Belgium	
XX = 071	Spain	XX = 291	Japan	
XX = 081	Denmark	XX = B31	International	
TFT5600 Rack Keyboard Monitor				221546-xx1
Country Code Key *(for Keyboard with Hot Keys and Trackball (PN 158649-xxx))*				
XX = 001	US	XX = 009	Norway	
XX = 003	UK	XX = 010	Sweden/Finland	
XX = 004	Germany	XX = 011	Switzerland	
XX = 005	France	XX = 013	Portugal	
XX = 006	Italy	XX = 018	Belgium	
XX = 007	Spain	XX = 291	Japan	
XX = 008	Denmark	XX = B36	International	
Keyboards for Racks with Trackball				158649-xx1
Country Code Key *(for TFT5600 RKM Rack Keyboard Monitor (PN 221546-xx1))*				
XX = 001	US	XX = 091	Norway	
XX = 031	UK	XX = 101	Sweden/Finland	
XX = 041	Germany	XX = 111	Switzerland	
XX = 051	France	XX = 131	Portugal	
XX = 061	Italy	XX = 181	Belgium	
XX = 071	Spain	XX = 291	Japan	
XX = 081	Denmark	XX = B31	International	
1U Rack Keyboard Drawer				338056-B21
Input Device Adjustable Rails				287139-B21
Input Device Telco Rail				287138-B21
Keyboard/Monitor/Mouse extension cables				169989-001

Options

Rack Options for Third Party Cabinet Racks	Third Party Rail Kit	231122-B21
	Telco Rail Kit	231121-B21
Service and Support Offerings (CarePaq Services)	***Hardware Services 4-Hour On-site Service***	
	4-Hour On-site Service, 5-Day x 9-Hour, 3 Years (6-3 Part Number for U.S.)	162658-002
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for Canada)	162658-122
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for EMEA)	324417-002
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for U.S.)	162657-002
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for Canada)	162657-122
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for EMEA)	376912-022
	Installation & Start-up Services	
	Hardware Installation (6-3 Part Number for U.S.)	401792-002
	Hardware Installation (6-3 Part Number for Canada)	401792-122
	Hardware Installation (6-3 Part Number for EMEA)	Quote
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Win NT Operating System plus up to 2 days start-up activity, configure print & network access services, and orientation (6-3 Part Number for Canada.)	FM-MSTEC-02
	e-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Win NT Operating System plus up to 2 days start-up activity, configure print & network access services, and orientation (6-3 Part Number for U.S.)	240014-002
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Novell NetWare Operating System plus up to 2 days start-up activity, configure print & network access services, and orientation (6-3 Part Number for Canada)	FM-NSTEC-02
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Novell NetWare Operating System plus up to 2 days start-up activity, configure print & network access services, and orientation (6-3 Part Number for U.S.)	240009-002
	Server Installation and Set-Up (Installation of the server, installation of the appropriate service tools, check to ensure device SW and firmware is loaded and installation of the operating system software (6-3 Part Number for EMEA)	204563-022

Options

Service and Support Offerings (CarePaq Services) *(continued)*	***CarePaq Priority Services for* ProLiant *Servers – Priority Level***	
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number forCanada)	FM-M01E2-36
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239929-002
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for Canada)	FM-N01E2-36
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239969-002
	5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), three years (6-3 Part Number for EMEA)	179835-022
	CarePaq Priority Services for* ProLiant *Servers – Priority 24 Level	
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Bronze Software Support, 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239931-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Bronze Software Support, 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239971-002
	7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), three years (6-3 Part Number for EMEA)	179840-022
	CarePaq Priority Services for* ProLiant *Servers – Priority Silver	
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck per year (6-3 Part Number for U.S.)	239933-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239935-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (6-3 Part Number for U.S.)	239973-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239975-002
	Note: For more information, customer/resellers can contact http://www.compaq.com/services.	

Memory

Compaq ProLiant ML370 Generation 2 (G2) All Models

STANDARD MEMORY

256-MB PC133-MHz Registered ECC SDRAM DIMM comes installed (2 x 128-MB SDRAM)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Up to 4,352-MB of memory is available with the optional installation of PC133-MHz Registered ECC SDRAM memory kits.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Up to 6,144-MB of memory is available with the removal of the standard 256 MB of memory and the optional installation of PC133-MHz Registered ECC SDRAM memory kits.

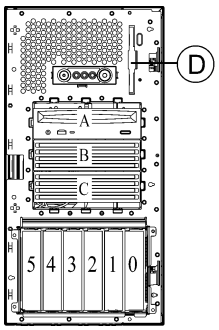
Note: This chart does not represent all possible memory configurations.

Memory		Slot					
		1	2	3	4	5	6
Standard	256 MB	128 MB	128 MB	Empty	Empty	Empty	Empty
Optional	4,352 MB	128 MB	128 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	6,144 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

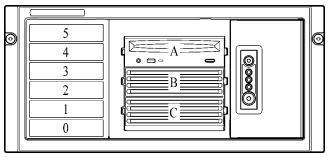
Following are memory options available from Compaq:

- 2048-MB PC133-MHz Registered ECC SDRAM Memory Option Kit (2 x 1024 MB) 201695-B21
- 1024-MB PC133-MHz Registered ECC SDRAM Memory Option Kit (2 x 512 MB) 201694-B21
- 512-MB PC133-MHz Registered ECC SDRAM Memory Option Kit (2 x 256 MB) 201693-B21
- 256-MB PC133-MHz Registered ECC SDRAM Memory Option Kit (2 x 128 MB) 201692-B21

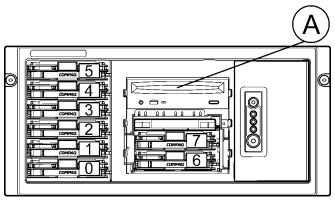
Storage



0 – 5	6 x 1″ Hot Pluggable Hard Drive Bays
A	40x IDE CD-ROM Drive
B, C	Two available half height bays
D	3.5 ″ Diskette Drive



0 - 5	6 x 1″ Wide Ultra2 Hot Pluggable Hard Drive Bays
A	40x IDE CD-ROM Drive
B, C	Two available half height bays



A	40x IDE CD-ROM Drive
0 - 7	6 x 1″ Wide Ultra2 Hot Pluggable Hard Drive Bays plus the ML3xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage

DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	D	Integrated
IDE CD-ROM Drive	Up to 2	A,B	Integrated IDE
DVD-ROM Drive Option Kit	Up to 2	A,B	Integrated IDE
ML3xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage (without fan)	Up to 1	B, C	Integrated SCSI
Hard Drives			
Wide Ultra3 Hot Pluggable Drives			
1-inch	Up to 8	0-7	Integrated Dual Channel Wide Ultra3 SCSI Adapter
72.8-GB 10,000 rpm	(With optional		Smart Array 5i Controller Option Kit (optional)
36.4-GB 10,000 rpm	ML3xx Internal		Smart Array 532 Controller
18.2-GB 10,000 rpm	Two Bay Hot Plug		Smart Array 5304/128 Controller
36.4-GB 15,000 rpm	Wide Ultra2/Ultra3		Smart Array 5304/256 Controller
18.2-GB 15,000 rpm	SCSI Drive Cage)		Smart Array 5312 Controller
			64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
			64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter

DRIVE SUPPORT *(continued)*

	Quantity Supported	Position Supported	Controller
Wide Ultra3 SCSI – Non-Hot Plug *(continued)*			
1-inch 36.4-GB 10,000 rpm 18.2-GB 10,000 rpm	Up to 3	A, B, C (Using the A position requires the removal of CD-ROM)	Integrated Dual Channel Wide Ultra3 SCSI Adapter Smart Array 5i Controller Option Kit (optional) Smart Array 5304/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External Storage			
StorageWorks Enclosure 4300 Family (supports Ultra2/Ultra3 drives only)	Up to 25	External	Smart Array 5302/32 Controller Smart Array 5304/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
StorageWorks Raid Array 4100 Kit	Up to 10 (with optional StorageWorks Hubs or Switches)	External	64-Bit/66-MHz Fibre Channel Host Adapter
MSA 1000	Please see the MSA 1000 QuickSpecs below to determine configuration requirements	External	Please see the MSA 1000 QuickSpecs (URL below) for the latest list of supported HBA's
MSA 1000: http://www5.compaq.com/products/quickspecs/11033_div/11033_div.HTML			

Maximum Storage Capacity (StorageWorks *Enclosure 4300) (Hot Plug)*	
Internal	582.4GB (6 x 72.8GB 1″ Wide Ultra3 hot plug hard drives with standard internal drive cage + 2 x 72.8GB 1″ Wide Ultra3 Hot plug hard drive using the optional ML3xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage)
External	25.480 TB (25 Storage Works Enclosures, each with 14 x 72.8GB Wide Ultra3 1″ drives, utilizing 6 x 4 channel 5300 SCSI controllers, plus integrated external channel for the 25th channel)
Total	26.072TB

Maximum Storage Capacity *(RAID Array 4100) (Hot Plug)*	
Internal	582.4GB (6 x 72.8GB 1″ Wide Ultra3 hot plug hard drives with standard internal drive cage + 2 x 72.8GB 1″ Wide Ultra3 Hot plug hard drive using the optional ML3xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage)
External	8.736 TB (10 RAID Array 4100's, each with 12 x 72.8GB Wide Ultra3 1″ drives)
Total	9.318 TB

DRIVE SUPPORT *(continued)*

	Quantity Supported	Position Supported	Controller
Tape Drives			
Note: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following: http://www5.compaq.com/products/quickspecs/North_America/10233.html (North America) http://www5.compaq.com/products/quickspecs/Division/10233.html (Division/World Wide)			
Note: For an up-to-date listing of the latest O/S Support details for each of the Tape Storage Systems listed below, please see the following: http://www5.compaq.com/products/quickspecs/North_America/10809.html (North America) http://www5.compaq.com/products/quickspecs/Division/10809.html (Division/World Wide)			
Internal AIT 100-GB, Hot Plug Internal AIT 50-GB, Hot Plug Internal AIT 35-GB, LVD Hot Plug Internal 20/40-GB DAT Drive, Hot Plug	Up to 2 Up to 3 (With optional ML3xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage)	0+1, 2+3 0+1, 2+3, 6+7	Smart Array 5i Controller Option Kit (optional) Smart Array 532 Controller Smart Array 5304/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller *Note: The Smart Array 532 Controller does not support the AIT 100-GB Hot Plug Tape Drive.
AIT 100-GB Internal AIT 50-GB Internal AIT 35-GB LVD Internal	Up to 2	B, C	Integrated Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
SDLT 110/220-GB, Internal	Up to 1	B, C	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
20/40-GB DAT DDS-4 8 Cassette Autoloader	1	External	Integrated Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
Internal 40/80-GB DLT Enhanced	1	B, C (two bays)	Integrated Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
AIT 100-GB External AIT 50-GB External AIT 35-GB, LVD External	1	External	Integrated Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
HP StorageWorks AIT 35 GB Autoloader	Up to 1 (for a single HBA) Up to 2 (for a dual HBA)	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
SDLT 110/220-GB, External	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External 40/80-GB DLT Enhanced	Up to 3	External	Integrated Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
DLT1 1280 SuperLoader	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
SSL2020 AIT Library	Up to 5	External	64-bit Dual Channel Wide Ultra2 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter SAN Access Module for Smart Array 5302 Controller
MSL5026DLX (40/80GB DLT-based) MSL5026SL (SDLT-based) Library MSL5052SL (SDLT-based) Library MSL5052SL (SDLT-based) Library MSL5052S2 (SDLT-based) Library MSL5030L1 (LTO-based) Library MSL5060L1 (LTO-based) Library	2 drives per SCSI channel	External	64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter

Power Specifications

POWER SPECIFICATIONS

Part Number	216068-001
Spare Kit	230993-B21
Operational Input Voltage Range (V rms)	90 to 264
Frequency Range (Nominal) (Hz)	47 to 63 (50/60)

Nominal Input Voltage (Vrms)	**100**	**115**	**208**	**220**	**230**	**240**
Max Rated Output Wattage Rating	500	500	500	500	500	500
Nominal Input Current (A rms)	8.1	6.9	3.8	3.5	3.4	3.2
Max Rated Input Wattage Rating (Watts)	794	781	769	758	758	758
Max. Rated VA (Volt-Amp)	810	797	785	773	773	773
Efficiency (%)	63	64	65	66	66	66
Power Factor	0.98	0.98	0.98	0.98	0.98	0.98
Leakage Current (mA)	0.30	0.35	0.63	0.67	0.70	0.73
Maximum Inrush Current (A peak)	25	25	25	25	25	25
Maximum Inrush Current duration	20	20	20	20	20	20

SYSTEM SPECIFICATIONS

ProLiant ML370 Generation 2 Fully Configured

Up to 2 Processors, 6 Memory Slots, 8 Hard Drives, 4 PCI Slots, and 2 Hot Plug Power Supplies

Nominal Input Voltage (Vrms)	**100**	**115**	**208**	**220**	**230**	**240**
Fully Loaded System Input Wattage (W)	704	693	682	672	672	672
Fully Loaded System Thermal (BTU-Hr)	2399	2362	2325	2290	2290	2290
System Leakage with all power supplies loaded (mA)	0.61	0.70	1.27	1.34	1.40	1.46
System Inrush Current with all power supplies loaded (A)	50	50	50	50	50	50
Power cord requirements	Nema 5-15P to IEC320-C13 Option no./Spare no.: See Chart below					
	IEC320-C13 to IEC320-C14 Option no./Spare no.: 142257-002/142258-B21					

Notes:

* - To review typical system power ratings use the Active Answers Power Calculator which is available via the online tool located at URL:

http://activeanswers.compaq.com/aaconfiguratorcode/

To drill down to calculators:

- Click on: "ProLiant Servers"
- Click on the Server of interest. Example: ML370 G2
- Click on: "Power Calculator" link. (You may need to scroll down to see it)

Technical Specifications

System Unit Tower	**Dimensions**	18.46 x 8.69 x 28 in/46.88 x 22.07 x 71.12 cm	
	Weight	70 lb/31.75 kg (without hard drives, no RPS)	
	Input Requirements	Range Line Voltage	90 to 264 VAC
		Rated Input Voltage	90 to 264 VAC
		Rated Input Frequency	47 to 63 Hz
		Rated Input Current	7.3A (110 V) to 3.6A (220 V)
		Rated Input Power	800W
	BTU Rating	2,732 BTU/HR	
	SCSI Connectors	Two Internal HD68 connectors and One External VHDCI Connector supporting Ultra3	
	Power Supply Output Power	Steady State Power	500 W
		Maximum Peak Power	550W
	Temperature Range	Operating	41° to 95° F/5° to 35° C
		Shipping	-40° to 185° F/-40° to 85° C
	Relative Humidity (non-condensing)	Operating	5% to 95%
		Non-operating	5% to 95%
	Maximum Wet Bulb Temperature	101.7°F/38.7°C	
	Acoustic Noise	Idle (Fixed Disk Drives Spinning)	
		L_{WAd} (BELS)	5.9
		L_{pAm} (dBA)	41
		Operating (Random Seeks to Fixed Disks)	
		L_{WAd} (BELS)	6.0
		L_{pAm} (dBA)	42
System Unit Rack	**Dimensions**	8.69 x 19.0 x 25.75 in/22.07 x 48.26 x 65.43 cm	
	Weight	65 lb/29.48 (without hard drives, no RPS)	
	Input Requirements	Range Line Voltage	90 to 264 VAC
		Rated Input Voltage	90 to 264 VAC
		Rated Input Frequency	47 to 63 Hz
		Rated Input Current	7.3A (110 V) to 3.6A (220 V)
		Rated Input Power	800W
	BTU Rating	2,732 BTU/HR	
	SCSI Connectors	Two Internal HD68 connectors and One External VHDCI Connector supporting Ultra3	
	Power Supply Output Power	Steady-State Power	500 W
		Maximum Peak Power	550W

System Unit Rack *(continued)*	**Temperature Range**	Operating	41° to 95° F/5° to 35° C
		Shipping	-40° to 185° F/-40° to 85° C
	Relative Humidity (non-condensing)	Operating	5% to 95%
		Non-operating	5% to 95%
	Maximum Wet Bulb Temperature	101.7°F/38.7°C	
	Acoustic Noise	Idle (Fixed Disk Drives Spinning)	
		L_{WAd} (BELS)	5.9
		L_{pAm} (dBA)	41
		Operating (Random Seeks to Fixed Disks)	
		L_{WAd} (BELS)	6.0
		L_{pAm} (dBA)	42
Optional Redundant Power Supply	**Input Requirements**	Rated Input Voltage	90 to 264 VAC
		Rated Input Frequency	47 to 63 Hz
		Rated Input Current	7.3A (110 V) to 3.6A (220 V)
		Rated Input Power	800W
	BTU Rating	2,732 BTU/HR	
	Power Supply Output Power	Steady State Power	500 W
		Maximum Peak Power	550W
	Temperature Range	Operating	41° to 95° F/5° to 35° C
		Shipping	-40° to 185° F/-40° to 85° C
	Relative Humidity (non-condensing)	Operating	5% to 95%
		Non-operating	5% to 95%
	Maximum Wet Bulb Temperature	101.7° F/38.7° C	
1.44-MB Diskette Drive	**Diskette Size**	3.5 in	
	LED Indicators (front panel)	Green	
	Read/Write Capacity per Diskette (high/low density)	1.44 MB/720 KB	
	Drive Supported	One	
	Drive Height	One-third	
	Drive Rotation	300 rpm	
	Transfer Rate (high/low)	500/250 Kb/s	
	Bytes/Sector	512	
	Sectors/Track (high/low)	18/9	
	Tracks/Side (high/low)	80/80	
	Access Times	Track-to-Track (high/low)	3/6 ms
		Average (high/low)	94/169 ms
		Settling Time	15 ms
		Latency Average	100 ms
	Cylinders (high/low)	80/80	
	Read/Write Heads	Two	

Hot Plug Wide Ultra3 SCSI Hard Drives	**72.8 GB10K**	**Capacity**	72837.2 MB	
	232432-B22	**Height**	1 in/2.54 cm	
		Width	4 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.7 ms
			Average	5.4 ms
			Full-Stroke	11 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	142,264,000
		Operating Temperature	50° to 95°F/10° to 35°C	
	36.4 GB 10K	**Capacity**	36419.2 MB	
	176496-B22	**Height**	1 in/2.54 cm	
		Width	4 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.7 ms
			Average	5.4 ms
			Full-Stroke	11 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	71,132,000
		Operating Temperature	50° to 95° F/10° to 35° C	
	18.2 GB 10K	**Capacity**	18209.3 MB	
	142673-B22	**Height**	1 in/2.54 cm	
		Width	4 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.7 ms
			Average	5.4 ms
			Full-Stroke	11 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	35,565,080
		Operating Temperature	50° to 95° F/10° to 35° C	
	36.4 GB 15K	**Capacity**	36419.2 MB	
	232916-B22	**Height**	1 in/2.54 cm	
		Width	4 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.4 ms
			Average	3.8 ms
			Full-Stroke	8 ms
			Rotational Speed	15,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	71,132,000
		Operating Temperature	50° to 95° F/10° to 35° C	

Hot Plug Wide Ultra3 SCSI Hard Drives *(continued)*	**18.2 GB 15K** 188122-B22	**Capacity**	18209.3 MB	
		Height	1 in/2.54 cm	
		Width	4 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.4 ms
			Average	3.8 ms
			Full-Stroke	8 ms
			Rotational Speed	15,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	35,565,080
		Operating Temperature	50° to 95° F/10° to 35° C	
Non-Hot Plug Wide Ultra3 SCSI Hard Drives	**36.4 GB 10K** 176497-B21	**Capacity**	36419.5 MB	
		Height	1 in/2.54 cm	
		Width	4 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.7 ms
			Average	5.4 ms
			Full-Stroke	11 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	71,132,000
		Operating Temperature	50° to 95° F/10° to 35° C	
	18.2 GB 10K 142674-B21	**Capacity**	18209.3 MB	
		Height	1 in/2.54 cm	
		Width	4 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.7 ms
			Average	5.4 ms
			Full-Stroke	11 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	35,565,080
		Operating Temperature	50° to 95° F/10° to 35° C	

40X Max IDE CD-ROM Drive	**Disk**	Applicable Disk	CD-ROM, CD-XA, CD-DA (Mode 1, Mode 2, Form 1 and 2)
			Photo CD (Single and Multi-session)
			Mixed Mode (Audio and Data combined)
			CD-R
		Capacity	540 MB (Mode 1, 12 cm)
			650 MB (Mode 2, 12 cm)
	Block Size	Mode 1	2,048 bytes
		Mode 2	2,340 bytes, 2,336 bytes
		CD-DA	2,352 bytes
		CD-XA	2,328 bytes
	Interface	IDE (ATAPI)	
	Access Times (typical)	Random	100 ms
		Full-Stroke	150 ms
	Audio Output Level	Line-Out	0.7 VRMS at 47 kOhms
	Data Transfer Rate	Sustained	150 KB/s (1X audio)
		Burst	16.67 Mbytes/sec
	Cache Buffer	128 KB	
	Start-up Time (typical)	< 7 seconds	
	Stop Time	< 4 seconds	
	Laser Parameters	Type	Semiconductor Laser GaA1As
		Wave Length	780 ± 25 nm
	Operating Conditions	Temperature	41° to 113° F/5° to 45° C
		Humidity	10% to 80%
	Dimensions	(HxWxD, maximum)	1.7 x 5.85 x 8.11 in/4.29 x 150 x 208 cm
		Weight	2.09 lb/0.95 kg
Integrated Dual Channel Wide Ultra3 SCSI Adapter	**Drives Supported**		Up to 15 SCSI devices per channel
	Data Transfer Method		64-bit PCI bus-master
	SCSI Channel Transfer Rate		160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)		267 MB/s
	SCSI Termination		Active Termination
	SCSI Connectors		1 external, 2 internal (68-pin)
Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL (Wake On LAN)	**Network Interface**		10Base-T/100Base-TX
	Compatibility		IEEE 802.3/802.3u compliant
	Data Transfer Method		32-bit bus-master PCI
	Network Transfer Rate		
		10Base-T (Half-Duplex)	10 Mb/s
		10Base-T (Full-Duplex)	20 Mb/s
		100Base-TX (Half-Duplex)	100 Mb/s
		100Base-TX (Full-Duplex)	200 Mb/s
	Connector		RJ-45
	Cable Support		
		10Base-T	Categories 3, 4 or 5 UTP; up to 328 feet (100 meters)
		100Base-TX	Category 5 UTP; up to 328 feet (100 meters)

Video Controller	**Controller Chip**		ATI RAGE XL
	Video DRAM		8 MB Video SDRAM
	Data Transfer Method		32-bit PCI
	Support Resolution		Supported Color Depths:
		640 x 480	16.7M, 64K, 256, 16
		800 x 600	16.7M, 64K, 256, 16
		1024 x 768	16.7M, 64K, 256, 16
		1152 x 864	16.7M, 64K, 256, 16
		1280 x 1024	16.7M, 64K, 256, 16
		1600 x 1200	64K, 256, 16
	Connector		VGA

Compaq Smart Array 5i Controller Option Kit (Optional)	**Protocol**	Wide Ultra3 SCSI
	Processor	32-bit RISC
	XOR engine	Hardware RAID
	Electrical interface	Low Voltage Differential (LVD)
	Simultaneous Drive Transfer Channels	2
	Channel Transfer Rate	320 MB/s total; 160 MB/s per channel
	SCSI Port Connectors	One external and one internal SCSI port or two internal SCSI Ports
	Memory	32 MB of SDRAM used for code, transfer buffers, and non-battery-backed read cache
	Peak transfer rate	133 MB/s
	Logical Drives Supported	32
	Software Upgradeable Firmware	Yes
	RAID Support	RAID 5 (Distributed Data Guarding RAID 1+0 (Striping and Mirroring) RAID 1 (Mirroring) RAID 0 (Stripping)
	Disk Drive and Enclosure Protocol Support	Ultra2 and Ultra3
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Smart Array 5312 Controller	**Data Compatible with all Smart Array Controllers**	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 133-MHz PCI-X
	PCI Peak Data Transfer Rate	1066 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2
	SCSI Peak Data Transfer Rate	320 MB/s total, 160 MB/s per channel
	Channels	2, 4
	SCSI Ports (external/internal)	2 channel model: 2/2
	Drives Supported (maximum)	28
	Cache	128-MB battery-backed read-write (optional 256 MB upgrade available)
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Smart Array 5300 Controller	**Data Compatible with all Smart Array Controllers**	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66 MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	640 MB/s total, 160 MB/s per channel
	Channels	2, 4
	SCSI Ports (external/internal)	2 channel model: 2/2 4 channel model: 4/2
	Drives Supported (maximum)	56
	Note: Drives Supported (maximum) is based on use of StorageWorks Enclosure 4200 family. (14 hard disk drive enclosure)	
	Cache	256,128, 64 or 32-MB battery-backed read-write
	RAID Support	0, 1, 1+0, 5, Advanced Data Guarding
	Note: For customers who have purchased the SA-5304/128 a quick firmware upgrades to enable the technology will be available from http://www.compaq.com/smartarray.	
	Note: RAID Support: Advanced Data Guarding (RAID ADG) is available with 128-MB versions of the SA-5300 only.	
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Smart Array 532 Controller	**Data Compatible with all Smart Array Controllers**	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66 MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2
	SCSI Peak Data Transfer Rate	160 MB/s
	Channels	2
	SCSI Ports (external/internal)	1/1
	Drives Supported (maximum)	14
	Note: Drives Supported (maximum) is based on use of StorageWorks Enclosure 4300 family (14 hard disk drive enclosure).	
	Cache	32-MB cache engine
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Technical Specifications

64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	**Drives Supported**	Up to 14 SCSI devices
	Storage Capacity	254.8 GB
	Data Transfer Method	64-bit/66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
	External SCSI Connectors	One 68-Pin Wide Ultra SCSI-3 connector
	Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors (one LVD and one SE) One 50-Pin Narrow Ultra connector

64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	**Drives Supported**	Up to 28 SCSI devices (14 per channel)
	Storage Capacity	509.6 GB
	Data Transfer Method	64-bit/66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
	External SCSI Connectors	Two 68-Pin VHDCI connectors
	Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors One 50-Pin Narrow Ultra connector

Compaq Rack 10842 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	85in/215.9 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	31.5 in/80.01 cm	43.5 in/110.49 cm	Carbon – frame
	Weight	295 lb/133.8 kg	335lb/151.95 kg	

Compaq Rack 10647 (47U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	89.96 in/228.5 cm	95.47 in/242.49 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	245 lb/111 kg	284 lb/129 kg	

Compaq Rack 10642 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.90 cm	86.22 in/219 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	253 lb/114.84 kg	325 lb/147.52 kg	

Technical Specifications

Compaq Rack 10636 (36U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	68.6 in/174.24 cm	75.25 in/191.14 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	220 lb/100 kg	272 lb/123 kg	

Compaq Rack 10622 (22U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	43 in/109.22 cm	52.25 in/132.72 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	176 lb/79.89 kg	225 lb/102.13 kg	

Compaq Rack 9842 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	86.22 in/219 cm	
	Depth	35.8 in/90.932 cm	48 in/121.92 cm	Opal
	Width	31.5 in/80.01 cm	38.8 in/98.55 cm	
	Weight	374 lb/170 kg	440 lb/200 kg	

Compaq Rack 9142 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	83.38 in/211.79 cm	
	Depth	35.8 in/90.932 cm	48 in/121.92 cm	Opal
	Width	23.7 in/60.2 cm	32 in/81.28 cm	
	Weight	253 lb/114.84 kg	325 lb/147.52 kg	

Compaq Rack 9136 (36U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	68.6 in/174.24 cm	75.25 in/191.14 cm	
	Depth	35.8 in/90.932 cm	48 in/12.192 cm	Opal
	Width	23.7 in/60.2 cm	32 in/81.28 cm	
	Weight	165 lb/75 kg	234 lb/106 kg	

Compaq Rack 9122 (22U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	43 in/109.22 cm	52.25 in/132.72 cm	
	Depth	35.8 in/90.932 cm	48 in/121.92 cm	Opal
	Width	24 in/60.96 cm	32 in/81.28 cm	
	Weight	176 lb/79.89 kg	225 lb/102.13 kg	

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